In the Claims:

1. (cancelled)

2. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said remote control means transmits a single channel signal to switch said addressable lighting device into programming mode.

3. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, further comprising means to activate said means for switching said addressable lighting device into said programming mode.

4. (Currently Amended) An addressable lighting device and control system according to claim 3, wherein said means to activate said means for switching said addressable lighting device into said programming mode is a ~~laser pointer or a permanent magnet~~ non-mechanical means.

5. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said detecting means is an infrared sensor or a radio frequency antenna.

6. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said means for switching is ~~selected from the group comprising a~~ non-mechanical switch~~, a pushbutton, a light detecting switch, a hall effect switch, and a reed switch~~.

7. (currently amended) An addressable lighting device and control system according to claim 2, wherein said means for switching is a ~~light detecting switch~~ non-mechanical switch.

8. (currently amended) An addressable lighting device and control system according to claim 3, wherein said means for switching is ~~selected from the group comprising~~ a non-mechanical switch~~, a pushbutton, a light detecting switch, a hall effect switch, and a reed switch~~.

9. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said addressable lighting device further includes a visual display means to indicate status of said addressable lighting device.

10. (original) An addressable lighting device and control system according to claim 9, wherein said visual display means is a light emitting diode display.

11. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said remote control means transmits said single channel signal as an infrared or radio frequency signal.

12. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said remote control means includes a microprocessor to generate said single channel signals.

13. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said remote control means includes a plurality of switches to set parameters of said single channel ~~a~~ signal transmitted to said addressable lighting device.

14. (currently amended) An addressable lighting device and control system according to claim ~~13~~ 12 wherein said remote control means includes a plurality of switches to set parameters of said single channel ~~a~~ signal transmitted to said addressable lighting device.

15. (currently amended) An addressable lighting device and control system according to claim ~~1~~ 38, wherein said remote control means includes a keypad to set parameters of <u>said single channel</u> ~~a~~ signal transmitted to said addressable lighting device.

16. (currently amended) An addressable lighting device and control system according to claim <u>12</u> ~~13~~, wherein said remote control means includes a keypad to set parameters of <u>said single channel</u> ~~a~~ signal transmitted to said addressable lighting device.

17. (currently amended) An addressable lighting device and control system according to claim ~~1~~ <u>38</u>, wherein said addressable lighting device further includes a decoder to transform an incoming signal into a digital signal.

18. (cancelled)

19. (currently amended) A control system for an addressable lighting device, comprising: remote control means generating a single channel output signal; and at least one addressable lighting device, said at least one addressable lighting device having a changeable electronic address, switch means for switching between a program mode and an operation mode, receiving means for receiving said output signal from said remote control means, and a microcontroller, wherein said at least one addressable lighting device is in said program mode when said electronic address is set or changed and said at least one addressable lighting device being in said operation mode when operating;

<u>Wherein the improvement comprises said switch means for switching between a program mode and an operation mode being a non-mechanical switch; and wherein said output signal of said remote control means sets said electronic address and said power intensity value while in said programming mode.</u>

20. (original) A control system for an addressable lighting device according to claim 19, further comprising means to activate said switch means for switching between said programming mode and said operation mode.

21. (original) A control system for an addressable lighting device according to claim 20, wherein said means to activate ~~is a laser pointer or a permanent magnet~~ is a non-mechanical activating means.

22. (original) A control system for an addressable lighting device according to claim 19, wherein said receiving means is an infrared, photoeye, inductive or capacitive sensor or a radio frequency antenna.

23. (original) A control system for an addressable lighting device according to claim 19, wherein said switch means for switching between said programming mode and said operation mode is ~~selected from the group comprising~~ a non-mechanical switch~~, a pushbutton, a light detecting switch, a hall effect switch, and a reed switch~~.

24. (currently amended) A control system for an addressable lighting device according to claim 19 ~~claim 1~~, wherein said addressable lighting device further includes a visual display means to indicate status of said addressable lighting device.

25. (original) A control system for an addressable lighting device according to claim 24, wherein said visual display means is a light emitting diode display

26. (original) A control system for an addressable lighting device according to claim 19, wherein said remote control means transmits an infrared or radio frequency signal.

27. (original) A control system for an addressable lighting device according to claim 19, wherein said remote control means includes a microprocessor to generate signals.

28. (original) A control system for an addressable lighting device according to claim 19, wherein said remote control means includes a plurality of switches to set parameters of a signal transmitted to said addressable lighting device.

29. (original) A control system for an addressable lighting device according to claim 27 wherein said remote control means includes a plurality of switches to set parameters of a signal transmitted to said addressable lighting device.

30. (original) A control system for an addressable lighting device according to claim 19, wherein said remote control means includes a keypad to set parameters of a signal transmitted to said addressable lighting device.

31. (original) A control system for an addressable lighting device according to claim 27, wherein said remote control means includes a keypad to set parameters of a signal transmitted to said addressable lighting device.

32. (original) A control system for an addressable lighting device according to claim 19, wherein said addressable lighting device further includes a decoder to transform an incoming signal into a digital signal.

33. (currently amended) A control system for an addressable lighting device according to claim 19, wherein said remote control means ~~includes means to globally access a plurality of address lighting devices to set a desired power intensity level.~~ transmits said single channel signal as a serially transmitted data protocol, and further comprising:

A. means for synchronizing said lighting devices to signal a beginning of transmission of said serially transmitted data protocol; and

B. means for generating said serially transmitted data protocol with an address field wherein a first byte of said address field being different than zero, and with an intensity level field corresponding to an intensity of a specific address defined by said address field.

34. (currently amended) A method of programming addressable lighting devices in a lighting control system having a remote control means to transmit signals to said addressable lighting device, comprising the steps of:

A. providing at least one addressable lighting device, said at least one addressable lighting device having a changeable electronic address, switch means for switching between a program mode and an operation mode, and receiving means for receiving an output signal from said remote control means, wherein said at least one addressable lighting device is in said program mode when said electronic address is set or changed <u>and/</u>or when a <u>stored</u> power intensity value is changed and said at least one addressable lighting device being in said operation mode when operating, ~~and wherein said output signal of said remote control means sets said electronic address and said power intensity value~~;

B. changing said addressable lighting device to said program mode;

C. transmitting a single channel signal <u>from said remote control means</u> to said addressable lighting device to set an electronic address and/or a power intensity value of said addressable lightening device;

   <u>wherein said single channel signal is a serially transmitted data protocol, and further comprising the steps of:</u>

   <u>1. synchronizing said lighting devices to signal a beginning of transmission of said serially transmitted data protocol; and</u>

   <u>2. generating said serially transmitted data protocol with an address field wherein a first byte of the address field being different than zero, and with an intensity level field corresponding to an intensity of a specific address defined by said address field;</u> and

D. changing said addressable lighting device to said operation mode.

35. (original) A method of programming addressable lighting devices in a lighting control system according to claim 34, further comprising the step of sending a signal when said addressable lighting device is in said operation mode to activate said addressable lighting device.

36. (cancelled)

38. (new) An addressable lighting device and control system comprising:

a remote control;

at least one addressable lighting device with an electronic address and having a detecting means for detecting signals from said remote control, and a means for switching said addressable lighting device into a programming mode;

a microcontroller; and

a lighting means controlled by said addressable lighting device;

wherein the improvement comprises: said remote control means transmitting said signal as a single channel signal wherein said single channel signal is a serially transmitted data protocol, and further comprising:

  A. a means for synchronizing said lighting devices to signal a beginning of transmission of said serially transmitted data protocol; and

  B. a means for generating said serially transmitted data protocol with said address field wherein a first byte of the address field being different than zero, and with an intensity level field corresponding to an intensity of a specific address defined by said address field.

39. (new) The addressable lighting device and control system of claim 38, wherein said value in said address field corresponds to a value in a lookup table, said lookup table being contained in a memory in said addressable lighting device and said microcontroller resolves if the value in said address field of said signal pertains to said electronic address of said addressable lighting device and if said address field corresponds to said electronic address then said controllable lighting means is activated in accordance with instructions in said incoming signal.

40. (new) A method of programming addressable lighting devices in a lighting control system according to claim 34, further comprising the step of setting at least one value in a lookup table corresponding to at least one said electronic address of at least one said addressable lighting device and storing a separate power intensity value for each said electronic address while in said programming mode.